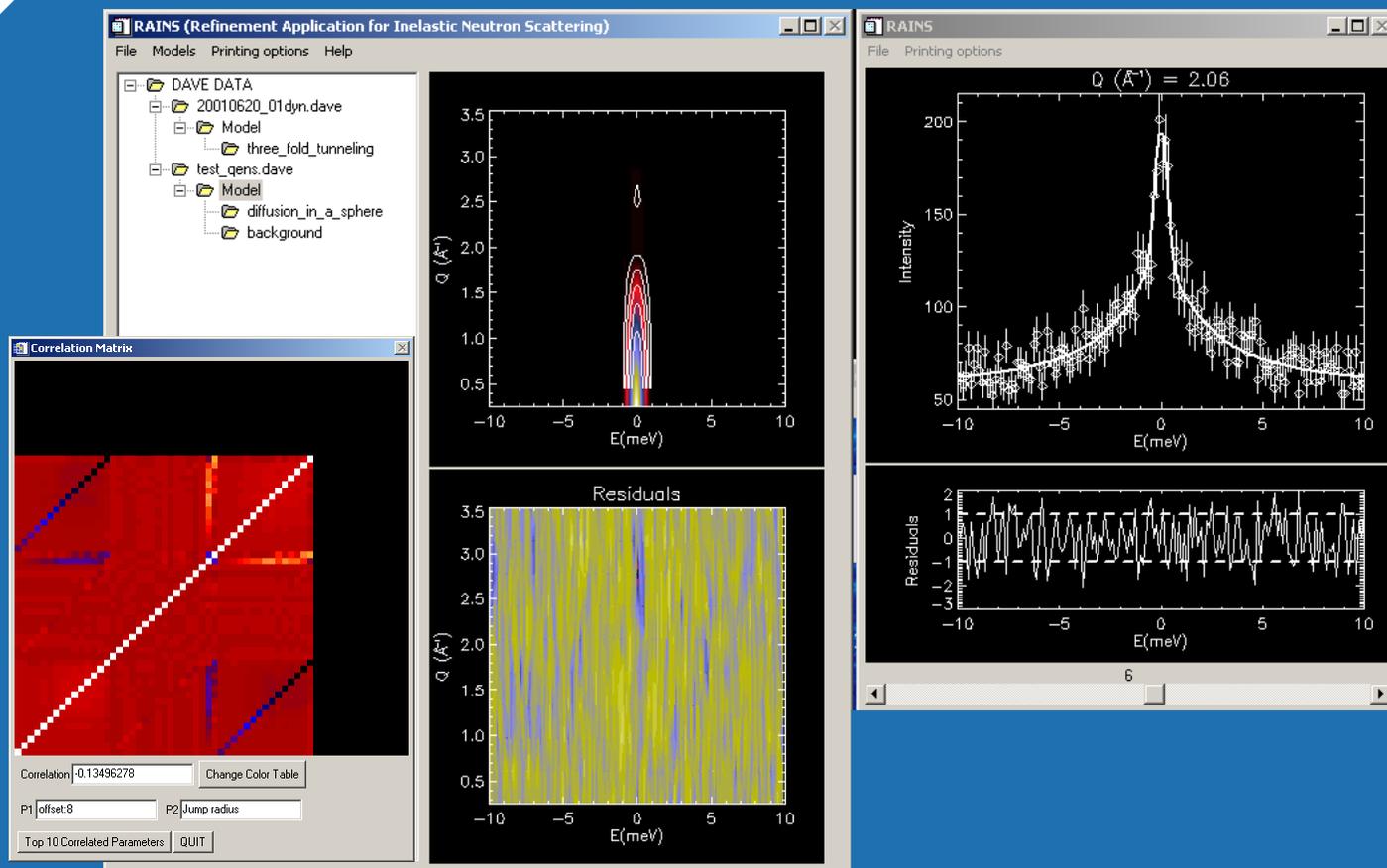


NOW IN DAVE

# RAINS

## Refinement Application for Inelastic Neutron Scattering



- w Fit two-dimensional parametrized surface models of  $S(Q, \omega)$  to your reduced neutron spectra
- w Easy-to-navigate tree-view interface
- w Interrupt fitting
- w Instrumental resolution function used in fitting
- w Impose parameter constraints
- w Compare fits of different models via  $\chi^2$
- w Intuitive visualization of parameter correlations

### Currently available models:

- w 2,3,N-fold jump diffusion on a circle
- w Translational diffusion
- w Isotropic rotational diffusion
- w Diffusion within a sphere
- w Bounded jump diffusion
- w 3-fold tunneling
- w Empirical models including sloping background, Gaussians, and Lorentzians

NIST Center for Neutron Research  
**DAVE**  
Data Analysis and Visualization Environment

For more information about this application, contact Rob Dimeo (ext 8135, robert.dimeo@nist.gov)

For more information about the DAVE software and how to download it for your computer, please visit us at [www.ncnr.nist.gov/DAVE](http://www.ncnr.nist.gov/DAVE)

This work is based upon activities supported by the National Science Foundation under Agreement no. DMR-0086210.